

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A transmission power control system for controlling, at ~~the~~ a time of wireless communication between ~~the~~ a base station and a mobile station, ~~the~~ a transmission power from the base station to the mobile station to ~~the~~ an optimum value by using ~~the~~ a desired SIR (desired signal power versus noise power ratio), wherein:

the desired SIR is preset on the basis of ~~the~~ a communication quality of the communication and ~~the~~ a degree of follow-up of the received SIR from the desired SIR.

2. (Original) The transmission power control system according to the present invention, wherein the degree of follow-up of the desired SIR by the received SIR is decided by the absolute value of the difference between the desired SIR and the received SIR.

3. (Original) The transmission power control system according to claim 1, wherein the degree of follow-up of the desired SIR by the received SIR is decided by the time integral of the absolute value of difference between the desired SIR and the measured value of the received SIR.

4. (Original) The transmission power control system according to claim 2, wherein the absolute value of the difference between the desired value and the measured value is compared with a predetermined threshold, and the desired SIR is increased or reduced based on the result of the comparison.

5. (Currently Amended) The transmission power control system according to claim 1 ~~one of claims 1 to 4~~, wherein the desired SIR value is stored, and the newly preset desired SIR value is also stored in the memory.

6. (Currently Amended) The transmission power control system according to claim 1 ~~one of claims 1 to 5~~, wherein the desired SIR is controlled by the desired SIR controller by reading

out the desired communication quality value from a demodulator, reading out the desired communication quality value from a communication quality measuring part, reading out the measured SIR value from an SIR measuring unit from a memory, and reading out the measured SIR value from the SIR measuring part.

7. (Currently Amended) The transmission power control system according to claim 1 ~~one of claims 1 to 6~~, wherein the wireless communication between the base station and the mobile station ~~is comprises~~ a wireless communication system ~~such as~~ including a W-CDMA system using outer loop transmission power control.

8. (Currently Amended) A transmission power controlling system comprising:
a communication quality measuring part for measures parameters representing the communication quality ~~such as~~ including any of BER and BLER;
an SIR measuring part for ~~measures~~ measuring the SIR of ~~the~~ a received signal;
a demodulating part for demodulating various data from their received signals; and
a desired SIR control part for determining a desired SIR value based on the desired value and measured value of the communication quality and the desired value and measured value of SIR.

9. (New) The transmission power control system according to claim 2, wherein the desired SIR value is stored, and the newly preset desired SIR value is also stored in the memory.

10. (New) The transmission power control system according to claim 3, wherein the desired SIR value is stored, and the newly preset desired SIR value is also stored in the memory.

11. (New) The transmission power control system according to claim 4, wherein the desired SIR value is stored, and the newly preset desired SIR value is also stored in the memory.

12. (New) The transmission power control system according to claim 2, wherein the desired SIR is controlled by the desired SIR controller by reading out the desired communication quality value from a demodulator, reading out the desired communication quality value from a

communication quality measuring part, reading out the measured SIR value from an SIR measuring unit from a memory, and reading out the measured SIR value from the SIR measuring part.

13. (New) The transmission power control system according to claim 3, wherein the desired SIR is controlled by the desired SIR controller by reading out the desired communication quality value from a demodulator, reading out the desired communication quality value from a communication quality measuring part, reading out the measured SIR value from an SIR measuring unit from a memory, and reading out the measured SIR value from the SIR measuring part.

14. (New) The transmission power control system according to claim 4, wherein the desired SIR is controlled by the desired SIR controller by reading out the desired communication quality value from a demodulator, reading out the desired communication quality value from a communication quality measuring part, reading out the measured SIR value from an SIR measuring unit from a memory, and reading out the measured SIR value from the SIR measuring part.

15. (New) The transmission power control system according to claim 5, wherein the desired SIR is controlled by the desired SIR controller by reading out the desired communication quality value from a demodulator, reading out the desired communication quality value from a communication quality measuring part, reading out the measured SIR value from an SIR measuring unit from a memory, and reading out the measured SIR value from the SIR measuring part.

16. (New) The transmission power control system according to claim 2, wherein the wireless communication between the base station and the mobile station comprises a wireless communication system including a W-CDMA system using outer loop transmission power control.

17. (New) The transmission power control system according to claim 3, wherein the

wireless communication between the base station and the mobile station comprises a wireless communication system including a W-CDMA system using outer loop transmission power control.

18. (New) The transmission power control system according to claim 4, wherein the wireless communication between the base station and the mobile station comprises a wireless communication system including a W-CDMA system using outer loop transmission power control.

19. (New) The transmission power control system according to claim 5, wherein the wireless communication between the base station and the mobile station comprises a wireless communication system including a W-CDMA system using outer loop transmission power control.

20. (New) The transmission power control system according to claim 6, wherein the wireless communication between the base station and the mobile station comprises a wireless communication system including a W-CDMA system using outer loop transmission power control.